(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property Organization International Bureau



(43) International Publication Date 4 November 2004 (04.11.2004)

PCT

(10) International Publication Number WO 2004/094050 A2

(51) International Patent Classification7:

B01F

(21) International Application Number:

PCT/US2004/012673

23 April 2004 (23.04.2004) (22) International Filing Date:

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

60/464,879

23 April 2003 (23.04.2003)

(71) Applicant: THE UNIVERSITY OF AKRON [US/US]; 302 E. Buchtel Common, Akron, OH 44325 (US).

(71) Applicants and

- (72) Inventors: RENEKER, Darrell, H. [US/US]; 300 Hampshire Road, Akron, OH 44313 (US). SMITH, Daniel, J. [US/US]: 2988 Ridgeline Trail, Stow, OH 44224 (US).
- (74) Agent: SCHLUE, Daniel, J.; Roetzel & Andress, 222 S. Main Street, Akron, OH 44308 (US).

(81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

(84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

without international search report and to be republished upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: SEQUESTERED REACTIVE MATERIALS

(57) Abstract: A fibrous assembly is provided for performing site-specific chemistry. In general the present invention provides a fibrous assembly comprising a first fiber that sequesters a first reactive component; and a second fiber that sequesters a second reactive component, wherein at least the first or second fiber releases its reactive component when the fiber is in the presence of a releasing agent, and wherein when the at least first or second fiber releases its reactive component, the first and second reactive components react with each other to form a reaction product. Related methods of manufacture and use are also provided.